AUTOMATIC ANALYSIS AND ADJUSTMENT OF DIGITAL IMAGES UPON ACQUISITION

ABSTRACT

Techniques and tools for automatically analyzing and adjusting digital images upon acquisition are described. In one aspect, an application analyzes and adjusts image data (e.g., pixel data) automatically upon acquiring (e.g., from a source such as a digital camera) a digital image. Adjustments can be based on, for example, image orientation, red-eye detection, blurriness, color balance, exposure, or noise detection. Metadata corresponding to image adjustments can be stored in an adjusted image file to preserve the original image. In another aspect, a computer system comprises image analysis and image adjustment software modules for analyzing and adjusting digital image data at image acquisition time. The image adjustment module can include one or more processing filters. A customizable software architecture allows customization of the image adjustment software module (e.g., by adding, removing or reordering processing filters). The described techniques and tools can be implemented as features of an operating system environment.